

CLAIMS

We Claim:

5 1. A composition comprising: a membrane associated with at least one dendrimer, said dendrimer comprising at least one biological agent.

 2. The composition of Claim 1, wherein said membrane comprises a biocompatible membrane.

10 3. The composition of Claim 1, wherein said membrane comprises a bioerodable membrane.

 4. The composition of Claim 1, wherein said membrane is desiccated.

15 5. The composition of Claim 1, wherein said membrane comprises a PLGA membrane.

20 6. The composition of Claim 1, wherein said membrane comprises a collagen membrane.

 7. The composition of Claim 1, wherein said dendrimer is covalently attached to said membrane.

25 8. The composition of Claim 1, wherein said dendrimer is attached to a surface of said membrane.

 9. The composition of Claim 1, wherein said dendrimer is encompassed within said membrane.

10. The composition of Claim 1, wherein said membrane is associated with a plurality of dendrimers.

11. The composition of Claim 1, wherein said agent is attached to a surface of said dendrimer.

12. The composition of Claim 1, wherein said agent is encompassed within said dendrimer.

13. The composition of Claim 1, wherein said agent comprises a therapeutic agent.

14. The composition of Claim 13, wherein said therapeutic agent comprises nucleic acid.

15. The composition of Claim 14, wherein said nucleic acid comprises DNA.

16. The composition of Claim 15, wherein said DNA comprises a gene encoding a protein that promotes wound healing.

17. The composition of Claim 16, wherein said gene comprises a gene encoding a growth factor.

18. The composition of Claim 15, wherein said DNA comprises a gene encoding a protein that promotes tissue vascularization.

19. The composition of Claim 18, wherein said gene comprises a gene encoding a growth factor.

20. The composition of Claim 13, wherein said therapeutic agent comprises a protein.

21. The composition of Claim 20, wherein said protein comprises a protein that promotes wound healing.

22. The composition of Claim 21, wherein said protein comprises a growth factor.

23. The composition of Claim 20, wherein said protein comprises a protein that promotes tissue vascularization.

24. The composition of Claim 23, wherein said protein comprises a growth factor.

25. A method comprising:

a) providing:

i) a tissue; and

ii) a composition comprising a membrane associated with at least one dendrimer, said dendrimer comprising at least one biological agent; and

b) contacting said tissue with said composition.

26. The method of Claim 25, wherein said tissue comprises cultured cells *in vitro*.

27. The method of Claim 25, wherein said tissue comprises skin cells.

28. The method of Claim 25, wherein said tissue comprises *ex vivo* tissue obtained from a subject.

29. The method of Claim 25, wherein said tissue comprises tissue of a subject.

30. The method of Claim 29, wherein said contacting comprises placing said composition on a wound of said subject.

31. The method of Claim 29, wherein said contacting comprises placing said

composition on a lesion of said subject.

32. The method of Claim 25, wherein said membrane comprises a biocompatible membrane.

33. The method of Claim 25, wherein said membrane comprises a bioerodable membrane.

34. The method of Claim 25, wherein said membrane is desiccated.

35. The method of Claim 25, wherein said membrane comprises a PLGA membrane.

36. The method of Claim 25, wherein said membrane comprises a collagen membrane.

37. The method of Claim 25, wherein said dendrimer is covalently attached to said membrane.

38. The method of Claim 25, wherein said dendrimer is attached to a surface of said membrane.

39. The method of Claim 25, wherein said dendrimer is encompassed within said membrane.

40. The method of Claim 25, wherein said membrane is associated with a plurality of dendrimers.

41. The method of Claim 25, wherein said agent is attached to a surface of said dendrimer.

42. The method of Claim 25, wherein said agent is encompassed within said dendrimer.

43. The method of Claim 25, wherein said agent comprises a therapeutic agent.

44. The method of Claim 43, wherein said therapeutic agent comprises nucleic acid.

45. The method of Claim 44, wherein said nucleic acid comprises DNA.

46. The method of Claim 45, wherein said DNA comprises a gene encoding a protein that promotes wound healing.

47. The method of Claim 46, wherein said gene comprises a gene encoding a growth factor.

48. The method of Claim 45, wherein said DNA comprises a gene encoding a protein that promotes tissue vascularization.

49. The method of Claim 48, wherein said gene comprises a gene encoding a growth factor.

50. The method of Claim 43, wherein said therapeutic agent comprises a protein.

51. The method of Claim 50, wherein said protein comprises a protein that promotes wound healing.

52. The method of Claim 51, wherein said protein comprises a growth factor.

53. The method of Claim 50, wherein said protein comprises a protein that

promotes tissue vascularization.

54. The method of Claim 53, wherein said protein comprises a growth factor.

5 55. A composition comprising a desiccated membrane capable of transfecting a tissue.

56. The composition of Claim 55, wherein said membrane comprises at least one dendrimer.

10 57. The composition of Claim 55, wherein said dendrimer comprises at least one biological agent.

15 58. The composition of Claim 55, wherein said biological agent comprises nucleic acid.

59. The composition of Claim 55, wherein said tissue comprises skin tissue.

20 60. A method comprising:

a) providing:

i) a tissue; and

ii) composition comprising a desiccated membrane capable of transfecting said tissue; and

b) contacting said tissue with said composition.

25 61. The composition of Claim 60, wherein said membrane comprises at least one dendrimer.

30 62. The composition of Claim 60, wherein said dendrimer comprises at least one biological agent.

